PATENT COOPERATION TREATY **PCT**

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty) REC'D 1 3 DEC 2005

(PCT Article 36 and Rule 70) WIPO		WIPO PCT			
Applicant's or agent's file reference WEJ503866-142	FOR FURTHER ACTION	See Form PCT/IPEA/416			
International application No.	International filing date (day/month/year)	Priority date (day/month/year)			
PCT/NZ2004/000324	16 December 2004	16 December 2003			
International Patent Classification (IPC) or 1	national classification and IPC				
Int. Cl. ⁷ G01R 11/00; G08C 19/00; H	I02J 13/00				
Applicant	•	·			
PULSE UTILITIES LIMITED e	t al	·			
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.					
2. This REPORT consists of a total of 3	sheets, including this cover sheet.	*			
3. This report is also accompanied by ANN	IEXES, comprising:	·			
a. (sent to the applicant and to the	International Bureau) a total of sheets, as	follows:			
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or table related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indications relating	to the following items:				
X Box No. I Basis of the repor	X Box No. I Basis of the report				
Box No. II Priority					
Box No. III Non-establishmen	nt of opinion with regard to novelty, inventive	step and industrial applicability			
Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain document	s cited	÷			
Box No. VII Certain defects in	the international application				
Box No. VIII Certain observations on the international application					
Date of submission of the demand Date of completion of the report					
15 July 2005	22 November 2005	6 DEC 2005			
Name and mailing address of the IPEA/AU	Authorized Officer				
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRAL E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929	MANISH RAJ Telephone No. (02) 6	283 2175			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/NZ2004/000324

otherwise indicated under this item. This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of: international search (under Rules 12.3 and 23.1 (b)) publication of the international application (under Rule 12.4) international preliminary examination (under Rules 55.2 and/or 55.3) With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filled" and are not annexed to this report): The international application as originally filled/furnished pages as originally filled/furnished pages* received by this Authority on with the letter of the claims: pages as originally filled/furnished pages* received by this Authority on with the letter of the drawings: pages as originally filled/furnished pages* received by this Authority on with the letter of the drawings: pages as originally filled/furnished pages* received by this Authority on with the letter of a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing. The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to the sequence listing (specify): any table(s) related to the sequence listing (specify):	Box	No. I					
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* If item 4 applies, some or all of those sheets may be marked "superseded."			any table(s) related to the sequence listing (specify):				
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/NZ2004/000324

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	Statement		
	Novelty (N)	Claims 1 - 20	YES
		Claims	NO
	Inventive step (IS)	Claims 1 - 20	YES
		Claims	NO
	Industrial applicability (IA)	Claims 1 - 20	YES
		Claims	NO

2. Citations and explanations (Rule 70.7)

CITATIONS:

D1: US 6043642A (MARTIN et al), 28 March 2000

D2: EP 201253B1 (THORN EMI Patents Limited), 18 December 1991

NOVELTY and INVENTIVE STEP:

Claims 1-20 are novel and involve inventive step because no individual citation or obvious combination of citations teach or suggest "a power line communication system including a plurality intelligent devices in communication with a power line and operable to monitor energy usage at a site and communicate usage data onto the power line, and a controller also in communication with the power line, wherein each intelligent device maintains a routing table identifying a first set of other intelligent devices downstream of it relative to the controller that it can communicate with directly and identifying a second set of other intelligent devices downstream of it relative to the controller that it can communicate with through with through one or more of the first set of other intelligent devices".

INDUSTRIAL APPLICABILITY:

Claims 1-20 have industrial applicability because the claimed invention can be made or used in the field of power line communication and metering systems.